AMENDMENTS TO THE CLAIMS

1-55. (Canceled)

56. (Currently Amended) An integrated circuit, comprising:

a semiconductor substrate;

a gate structure having sidewalls, said gate structure being located over said semiconductor substrate;

a plurality of first diffusion regions implanted with a first dopant, said plurality of first diffusion regions each being adjacent to the sidewalls of said gate structure; <u>and</u>

a plurality of second diffusion regions implanted with a second dopant, said plurality of second diffusions regions each being adjacent to the sidewalls of said gate structure;

wherein:

each of said first diffusion regions is associated with and located beneath a respective second diffusion region[[;]],

each of said first diffusion regions includes a portion extending beneath said gate structure[[;]], and

none of said plurality of second diffusion regions includes any portion which extends beneath said gate structure.

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- 57. (Previously Presented) The integrated circuit of claim 56, wherein said first dopant is a n-type dopant.
- 58. (Currently Amended) The integrated circuit of claim 57, wherein said first dopant is chosen from a group consisting of: phosphorous, arsenic, and antimony.
- 59. (Previously Presented) The integrated circuit of claim 56, wherein said first dopant is a p-type dopant.
- 60. (Currently Amended) The integrated circuit of claim 59, wherein said first dopant is chosen from a group consisting of: boron, boron bifloride, and borane.
- 61. (Previously Presented) The integrated circuit of claim 56, wherein the first dopant concentration ranges from 1×10^{12} ions/cm² to 7×10^{12} ions/cm².
- 62. (Previously Presented) The integrated circuit of claim 61, wherein the first dopant concentration is 2x10¹² ions/cm².

- 63. (Previously Presented) The integrated circuit of claim 56, wherein said first dopant is identical to said second dopant.
- 64. (Previously Presented) The integrated circuit of claim 63, wherein said first dopant and said second dopant are different.
- 65. (Previously Presented) The integrated circuit of claim 63, wherein said first dopant and said second dopant are of different conductivity types.
 - 66. (Currently Amended) An semiconductor device comprising:

a substrate having a first surface;

a gate structure formed over said first surface, said gate structure having a thermally reoxidized sidewall, said thermally reoxidized sidewall having an interior surface and an exterior surface; and

a plurality of diffusion regions formed within said substrate, each of said diffusion regions being formed adjacent to the thermally reoxidized sidewall[[;]],

wherein:

each of said diffusion regions respectively comprise <u>comprises</u> first and second portions respectively having first and second dopant

concentrations, which are different and cause each portion to have a graded dopant concentration,

each of said first portions is partially located beneath said interior surface of said thermally reoxidized sidewall[[; and]],

each of said second portions is partially located underneath said exterior surface of said thermally reoxidized sidewall[[; and]],

none of said second portion is located underneath said interior surface of said thermally reoxidized sidewall[[.]],

each of said first portions includes includes a region extending beneath said gate structure[[;]], and

none of said second portions having has any region which extends beneath said gate structure.

- 67. (Previously Presented) The semiconductor device of claim 66, wherein said first dopant is chosen from a group consisting of: phosphorous, arsenic, and antimony.
- 68. (Previously Presented) The semiconductor device of claim 66, wherein said second dopant is chosen from a group consisting of: phosphorous, arsenic, and antimony.

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69. (Previously Presented) The semiconductor device of claim 66, wherein said first dopant is chosen from a group consisting of: boron, boron bifloride, and borane.

70. (Previously Presented) The semiconductor device of claim 66, wherein said second dopant is chosen from a group consisting of: boron, boron bifloride, and borane.

71-75. (Canceled)